

Do [

$$B[QU@v_i, QU@v_j] = B[QU@v_i, QU@w_j] = B[QU@w_i, QU@w_j] = 0;$$

$$B[QU@v_i, QU@x_{j,j+1}] = (\text{Ringel}[j, i] \, r - \text{Ringel}[i, j] \, s) \, QU[x_{j,j+1}, v_i]$$

,

$$\{i, 1, n\}, \{j, 1, n\}$$

];